

- 3) *Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.*

There will be no fill or dredge material placed or removed from surface waters in the area.

- 4) *Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.*

No surface water withdrawals or diversions will be required for the remediation project.

- 5) *Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.*

The project site occurs above the 100-year flood plain.

- 6) *Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.*

No waste materials will be discharged to surface waters.

*b. Ground:*

- 1) *Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.*

Groundwater will not be withdrawn as part of the proposed project. However routine groundwater monitoring will be performed. In the event that groundwater contamination should be detected and Ecology determines that groundwater capture and treatment is necessary, the contingent groundwater treatment units would be designed, installed and operated. Groundwater would be extracted at a rate that would prevent off-site migration of contaminants and would be treated prior to discharge through the effluent discharge pipeline. The contingent groundwater treatment system is presented in the Contingency Groundwater Extraction and Treatment Plan (Golder, 2002b). The anticipated withdrawal rate varies from less than 10 to approximately 40 gallons per minute (gpm). Treated groundwater would be regularly sampled prior to discharge to the pipeline and the sanitary sewer treatment system.

- 2) *Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals: agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.*

No waste material will be discharged from septic tanks. All sanitary sewage will be controlled with the use of portable toilets and collected wastes will be removed from the site for treatment.

c. *Water runoff (including stormwater):*

- 1) *Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.*

All surface runoff is from precipitation events and will be directed to flow into the temporary trenches for installation of the effluent discharge pipeline. The trenches will be backfilled and graded to provide proper stormwater drainage. Any ephemeral drainage that is crossed by the buried pipeline will have the drainage restored in the same manner prior to the trench excavation.

- 2) *Could waste materials enter ground or surface waters? If so, generally describe.*

There are no waste materials that are anticipated to enter groundwater or surface waters from the proposed project.

d. *Proposed measures to reduce or control surface, ground, and runoff water impacts, if any.*

Surface water controls, in particular, stormwater controls during construction activities will be controlled by standard BMPs using silt fences and hay bales to reduce turbidity in surface runoff. Most surface water/stormwater will be directed to enter the trench for infiltration. The trench is not expected to stay open long and will be backfilled soon after the pipeline is installed. The pipeline on Palmer Coking Coal property will be installed in a continuous manner with backfilling occurring also in a continuous fashion. In this manner the amount of stormwater will be minimized.

4. *Plants*

a. *Check or circle types of vegetation found on the site:*

**deciduous tree:** alder, maple, aspen, other

**evergreen tree:** fir, cedar, pine, other shrubs

grass, pasture

**crop or grain:** None

**wet soil plants:** cattail, buttercup, bullrush, skunk

cabbage, other water plants: water lily, eelgrass, milfoil, other  
other types of vegetation

Dense vegetation covers a majority of the site and includes blackberry, alder, cedar, hemlock, cottonwood, maple and fir. Vegetation is sparse in certain areas primarily associated with areas of recent activity, roads and coal mine waste rock piles where the rocky conditions and poor soil development retards plant development.

b. *What kind and amount of vegetation will be removed or altered?*

At the north entrance to the Mine site, the ground surface would be cleared and grubbed to remove organic debris. Very few trees exist, but the grasses and scrubs will need to be cleared. The topsoil would be stockpiled for use in the vegetative cover layer as needed. A portion (about 800 feet in length) of the pipeline trenches will pass through thick vegetation until the pipeline reaches the existing gravel service road. In this area, trees and large brush would be removed for trenching and pipeline installation. Trees that are removed will be logged and sold. All vegetated areas affected by the construction activities will be reseeded and replanted following the construction operations. Once the vegetation has been reestablished by seeding and replanting, the total percentage of vegetative

covered area should not be decreased from pre-project conditions except for the footprint of the concrete treatment pad (~ 7000 square feet) and the transformer (100 square feet) and the graveled vehicle drive and parking area (~ 18,000 square feet).

*c. List threatened or endangered species known to be on or near the site.*

No plant species on or near the site were identified as threatened or endangered. The search area for this determination represented an approximately one mile search radius extending from the Study Area and included Sections 23 to 26 of Township 22 North, Range 06 East, and Sections 19 and 20 of Township 22 North, Range 07 East.

*d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:*

Reseeding and replanting will be completed on all existing vegetated areas affected by the construction activities, except the footprints to the concrete pad for the treatment system and the transformer and vehicle drive and parking areas. The lower, flatter portions around the north portal #2 and the proposed treatment system will be reseeded with a mix of clovers and grasses. Affected areas between the treatment system and the existing gravel road will be replanted with trees. Existing, and newly constructed on-site haul roads will be retained to provide access throughout the site.

5. Animals

*a. Circle any birds and animals that have been observed on or near the site or are known to be on or near the site:*

**Birds:** hawk, heron, eagle, songbirds, other:

**Mammals:** deer, bear, elk, beaver, other:

**Fish:** bass, salmon, trout, herring, shellfish, other:

*b. List any threatened or endangered species known to be on or near the site.*

Endangered and threatened species are categorized as listed, proposed, and candidate. Listed endangered species are defined as those species known to be experiencing or that have experienced failing or declining populations due to factors such as limited numbers, disease, predation, exploitation, or loss of suitable habitat. Proposed endangered species are under consideration for protection. Candidate species are species that may be proposed and listed in the future.

The United States Fish and Wildlife Service (USFWS) identified the bald eagle as the only listed endangered species sighted near the Study Area. The search area for this determination represented an approximately one mile search radius extending from the Study Area and included Sections 23 to 26 of Township 22 North, Range 06 East, and Sections 19 and 20 of Township 22 North, Range 07 East. Bald eagles may winter within this area from approximately October through March.

The USFWS did not identify any proposed species in the Study Area vicinity. Several candidate species were also identified by the USFWS as potentially occurring on or near the site. These include the bull trout, mountain quail, northern goshawk, northern red-legged frog, northwestern pond turtle, pacific fisher, and the spotted frog.

*c. Is the site part of a migration route? If so, explain.*

No evidence of the site being part of a migration route was noted during the multi-year investigations that have been carried out at the Landsburg Mine site.

*d. Proposed measures to preserve or enhance wildlife, if any:*

The long-term conditions at the site for wildlife should remain similar to current conditions at the site. Short-term impacts to wildlife (primarily temporary displacement) will result during the actual construction of the proposed project.

*6. Energy and natural resources*

*a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.*

A source of energy is currently not anticipated for the proposed project construction. Portable generators and equipment will be used during construction. Should the groundwater treatment system become operational, connections to local electrical power grid will be used for energy for groundwater pumping and treatment. The electrical transformer is included in the proposed infrastructure for possible future operation of the treatment system.

*b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.*

The project will not affect the potential use of solar energy by adjacent properties.

*c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:*

Not applicable. No energy impacts are currently anticipated.

*7. Environmental health*

*a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.*

The proposed action for the Landsburg Mine site is designed to reduce the possibility of long-term human and environmental exposure to toxic and hazardous substances. The installation of the infrastructure will enable the Landsburg PLP group to rapidly install for operation a treatment system that will capture and control contaminants, if such a system becomes necessary.

*1) Describe special emergency services that might be required.*

Potential emergency services required for the Landsburg Mine site proposed project are consistent with those required for other construction and remediation projects. No special emergency services are anticipated for the Landsburg proposed project. Work will be conducted in accordance with a Site Health and Safety Plan which will be established prior to construction activities. All personnel on site will be briefed on the location of medical services and will be required to participate in weekly on-site health and safety meetings that are designed to stress worker and environmental safety.

*2) Proposed measures to reduce or control environmental health hazards, if any:*

The proposed project at the Landsburg Mine site will be performed under a Health and Safety Plan by workers that are properly trained for the required work. A specific worker safety program will be implemented during the construction activities.

*b. Noise*

*1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?*

Current noise levels in the area are consistent with a rural relatively undeveloped area. Local traffic and other currently existing noises will not affect the Landsburg proposed project.

*2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.*

No additional noise will be created by the project on a long-term basis. Short-term construction activities will produce noise similar to that of most earth excavation/ construction activities. These construction activities are not anticipated to occur for a period in excess of 1 to 2 months. The construction activities will be conducted during daylight hours. Only minimal impact to traffic is anticipated due to the majority of the truck traffic being primarily confined to the project site.

*3) Proposed measures to reduce or control noise impacts, if any:*

A specific work schedule will be maintained that will confine any noise impacts to surrounding properties to daylight hours. All equipment will be properly maintained and equipped with suitable mufflers and other sound suppression equipment. Off-site noise impacts will be routinely evaluated during the trenching and construction project.

*8. Land and shoreline use*

*a. What is the current use of the site and adjacent properties?*

A portion of the site has been used for forestry practices; however the majority of the site including the subsidence trench has had very limited use pending the remedial investigation, feasibility study of remedial options and construction of the selected remedial option. Adjacent properties are used for forestry and low-density rural housing.

*b. Has the site been used for agriculture? If so, describe.*

The site has not been used for agriculture. The site has historically been used for mineral extraction and forestry.

*c. Describe any structures on the site.*

The only remaining structure left on the site is a wood frame structure that was used as a changing/shower room for the miners as they came on and off their shifts. The building is located to the south of the Rogers Seam south portal (Portal #3) about 0.75 miles from the proposed project.

*d. Will any structures be demolished? If so, what?*

No structures will be demolished or impacted by the proposed activities.

*e. What is the current zoning classification of the site?*

The Study Area zoning was determined by reviewing zoning maps at the King County Department of Development and Land Services. The zoning codes from the map were updated to reflect the new Title 21A Zoning Code adopted in June 1993. The site zoning is shown on Figure 8. In general, zoning in the Study Area vicinity is intended to protect the forest resources of the area, to encourage moderate rural development and to protect water quality in the Cedar River and Rock Creek watersheds.

The bulk of the Study Area, including much of the central portion of the site and the former mine workings, has been assigned an RA, Rural Area Zone classification. This zoning, formerly classified as G-5 under KCC Title 21, but currently RA-5 (rural residential at a density of one dwelling unit per five acres) indicates that land use will maintain an area-wide rural character, will prevent urban developments in areas without adequate urban services, preserve environmentally sensitive areas, and minimize land use conflicts with nearby agricultural, forest, or mineral extraction production districts. In addition, permitted uses will limit residential density to be compatible with rural character and which can be supported by rural service levels.

The western portion of the Study Area east of the coal mine areas, has been designated F for forest use. This zoning is designed to preserve the forest land base, to protect the long-term productivity of forest land and restrict uses to those that are compatible with forestry. Compatible uses include outdoor recreation, conservation, and protection of municipal watersheds and wildlife habitats.

In addition, to these zoning classifications, the City of Kent and City of Seattle maintain municipal watershed lands along the western and eastern boundaries of the Study Area, respectively, for the protection of drinking water supplies associated with Rock Creek and the Cedar River.

*f. What is the current comprehensive plan designation of the site?*

The current comprehensive plan designation for the site is RA-5, Rural Area Zone classification.

*g. If applicable, what is the current shoreline master program designation of the site?*

Under the Shoreline Management Plan of King County, the Cedar River shoreline throughout the Study Area vicinity has been designated a "Conservancy" environment. The Conservancy designation objective is to conserve, protect and manage existing areas of irreplaceable natural or aesthetic features in their native state while providing for limited shoreline use at public sites (King County Dept. of Public Works 1993). The Conservancy designation for the Cedar River extends from

River Mile 3.4 to the river's headwaters. The actual mine site is located approximately 1,000 ft south of the Cedar River.

*h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.*

Sensitive areas as defined by the King County Sensitive Areas Ordinance (Ordinance 9614) consist of land areas described as environmentally sensitive or that are subject to natural hazards, and lands that support unique, fragile, or valuable natural features. These areas include wetlands, areas prone to stream and flood hazards, erosion hazards, seismic hazards, and coal mine hazards. The purpose of the Sensitive Areas Ordinance was to implement the goals and policies of the Washington State Environmental Policy Act and the King County Comprehensive Plan which call for protection of the natural environment and the public health and safety by establishing development standards to protect defined sensitive areas.

Development of land within identified sensitive areas requires special development standards as well as special studies to assess impacts and to propose adequate mitigation, maintenance, monitoring and contingency plans for those areas.

Sensitive Areas Maps based on the ordinance from King County were reviewed to determine what sensitive areas exist within the Study Area. These areas are shown on Figure 9.

A wetland area is defined as being inundated or saturated by ground or surface water at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Small isolated wetlands have developed within the mine trenches. The area of all wetlands within the mine trenches is less than 0.1 acre. Water from wetlands within the mine trenches either evaporate or infiltrate to groundwater. There is a wetland area within the southern site boundary identified in the King County Sensitive Areas map. This potential wetland is shown on Figure 9 and is a potential tributary of Rock Creek. This area is also depicted on the Washington Department of Wildlife priority habitat and species map as a palustrine (swampy) environment that is part of the Cedar River wetlands. Currently, a number of residences are situated within this area. This potential wetland is located over 1,000 ft. from the mine trench.

Streams are considered sensitive areas because of their esthetic values, their ability to provide recreation, support wildlife, and moderate flooding and erosion. The Cedar River is identified as a Class I stream for its length from Landsburg to Renton. This indicates the river is inventoried as a Shoreline of the State under the King County Management Plan. The Cedar River is currently under review for final designation as a Regionally Significant Resource Area (RSRA) by the Cedar River Management Committee (King County Public Works 1993).

Rock Creek to the south of the site is a Class II stream that flows year-round during years of normal rainfall and is used by salmonids. The creek is ephemeral to the east of where it crosses beneath the Kent-Kangley Rd.

Erosion hazards areas are described as areas where soils are susceptible to erosion as a result of development. Factors affecting erosion include the physical and chemical characteristics of the soil, the presence or absence of vegetative cover, slope length and gradient, the intensity of rainfall and velocity of runoff. Two large areas of the site are described as susceptible to erosion. The first is the steep northern slope along the Cedar River. The second is the steep hillside in the eastern portion of the study area between the trench and Study Area boundary. These areas are shown in Figure 9.

Landslide hazard maps delineate areas where the topographic and geologic conditions indicate a potential for hill-slope failure. There are no landslide hazard areas identified for the site. Seismic hazards are defined as areas subject to severe risk of earthquake damage as a result of seismically induced settlement or soil liquefaction. There are no such potential areas identified at the site.

Coal mine hazard areas are mapped because of their potential for gradual or sudden collapse of underground mine workings leading to surface ground failure. Surficial ground collapse can cause damage to structures, as well as personal injury. Additional risk may be posed by the presence of unstable mine spoils piles that are subject to failure. As expected, the portions of the Landsburg mine site where coal removal occurred are mapped as coal mine hazard areas. Areas near or at coal slag stockpiles to be used as borrow material are also classified as coal mine hazard areas. These are shown in Figure 9.

*i. Approximately how many people would reside or work in the completed project?*

No new residences are proposed as a part of the completed project.

*j. Approximately how many people would the completed project displace?*

No one would be displaced by the proposed project at the former Landsburg Mine site.

*k. Proposed measures to avoid or reduce displacement impacts, if any:*

No displacement impacts are anticipated from this proposed project

*l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:*

The site is a MTCA listed site with State of Washington, Department of Ecology oversight. Since waste will remain at the site, deed restrictions will be instituted to ensure that site use restrictions remain in force regardless of the property owner, and to notify any prospective purchasers of the presence of subsurface waste. Site use restrictions will prohibit using the site for any purpose incompatible with a waste disposal site, and will prohibit interference with the infrastructure components of the contingent groundwater treatment system. Therefore, the proposed project is compatible with the existing and projected land uses and plans for the site.

## *9. Housing*

*a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.*

No housing units will be provided as a result of the completed project. The proposed water effluent discharge pipeline will be dedicated to only conveying treated water effluent from groundwater treatment system for the site. No additional connections will be made to the proposed effluent discharge pipeline.

*b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.*

No housing units will be eliminated.

*c. Proposed measures to reduce or control housing impacts, if any:*

Not applicable.

*10. Aesthetics*

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?*

The only structures that will be constructed at the site for this proposed project include: the treatment system concrete pad, the electrical transformer with electrical cables/poles, graveled access road and parking area and the underground effluent pipeline.

- b. What views in the immediate vicinity would be altered or obstructed?*

No views will be altered.

- c. Proposed measures to reduce or control aesthetic impacts, if any:*

None.

*11. Light and glare*

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?*

No light or glare will be produced by the completed project. Construction activities will be conducted during daylight hours and light augmentation is not anticipated.

- b. Could light or glare from the finished project be a safety hazard or interfere with views?*

No light or glare will be produced by the completed project.

- c. What existing off-site sources of light or glare may affect your proposal?*

No off-site sources of light or glare have been identified that would affect the proposed project.

- d. Proposed measures to reduce or control light and glare impacts, if any:*

No light or glare impacts are anticipated for the proposed project at the Landsburg Mine site. Construction operations will be conducted during daylight hours.

*12. Recreation*

- a. What designated and informal recreational opportunities are in the immediate vicinity?*

The project site is located on a fairly rural hilltop. Recreational opportunities in the immediate vicinity include recreational activities on the Cedar River such as fishing as well as hunting, horseback riding and hiking.

- b. Would the proposed project displace any existing recreational uses? If so, describe.*

The completed proposed project should not displace any existing recreational users who obtain property owner permission to use the private property.

*c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:*

The Landsburg Mine site is private property owned by the Palmer Coking Coal Company and public recreational facilities do not currently exist or are anticipated at the site following completion of the proposed project.

### *13. Historic and cultural preservation*

*a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.*

There are no known places or objects listed on or proposed for national, state or local preservation registers on or adjacent to the site.

*b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.*

No landmarks or evidence of historic, archaeological, scientific or cultural importance were noted during the remedial investigation of the site. The site is primarily occupied by the remnants of mining (subsurface and surface) activities that occurred on three coal seams. A monument is erected on the southern end of the Landsburg seam to miners that perished in an underground mine disaster. The monument will not be disturbed by the proposed activities.

*c. Proposed measures to reduce or control impacts, if any:*

No landmarks of historic, archaeological, scientific or cultural importance will be disturbed by the remediation activities.

### *14. Transportation*

*a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.*

Public roads in the vicinity of the Landsburg Project site are shown on Figure 2. The project will only require limited short-term access for construction workers during the limited remediation construction period. Access to the site is provided by the Summit-Landsburg Rd. on the northern side of the project site, by the Kent-Kangley Rd. on the southern side of the project site and SE 256th Street to the eastern side of the site. Existing private gravel roads will be used for access throughout the site. These private roads will be improved as necessary to facilitate truck haulage.

*b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?*

Limited public transportation is available in some of the neighboring communities. The project site itself is not served by public transportation. Public transportation is not a requirement for this project.

*c. How many parking spaces would the completed project have? How many would the project eliminate?*

The proposed project will include a parking area to accommodate 3 to 4 cars or small trucks.

- d. *Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).*

A gravel private access road would be constructed on the north end of the Landsburg Mine for vehicle and truck access. This access road is anticipated to be about 430 feet long. The access road will be gravel surfaced and connect to the Summit-Landsburg road. The road will be retained for site access and maintenance for the groundwater treatment system if needed.

- e. *Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.*

Water, rail or air transportation does not occur in the immediate vicinity of the remediation project for the Landsburg Mine site and is not required for the project.

- f. *How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.*

Not applicable to this proposed project for the Landsburg Mine site. The completed project will not generate additional vehicular trips per day unless the groundwater treatment system becomes operational. The operational groundwater treatment system may require one vehicular trip per day for routine maintenance and monitoring.

- g. *Proposed measures to reduce or control transportation impacts, if any:*

Short-term minimal impacts will occur for mobilization to and demobilization from the project site and for limited, short-term worker access. Carpooling of workers is not anticipated, but will be encouraged. The total number of workers that are anticipated to be present during installation is 4 or 5 personnel on average. Operations will primarily be carried out within the boundaries of the project site with only very limited truck haulage on public roads. The portion of the pipeline installation that is adjacent to the Summit-Landsburg Road will temporarily impact traffic along the 500 foot corridor in front of the Tahoma Junior High School. Traffic control will be implemented, but short delays to traffic may occur.

There will be no long-term transportation impacts once the construction is completed.

**15. Public services**

- a. *Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.*

Not applicable to this proposed project for the Landsburg Mine site. There will be no increased need for public services.

- b. *Proposed measures to reduce or control direct impacts on public services, if any.*

Not applicable to this proposed project for the Landsburg Mine site.

**16. Utilities**

- a. *Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.*

The utilities required for the proposed project are electricity and connection to a sanitary sewer system. Sufficient electrical resources exists. The proposed project will connect to the existing local electrical grid for power for the Groundwater Treatment System, if needed. The treated groundwater will be piped and discharged to the Soos Creek Water and Sewer District sanitary sewer system that services the Tahoma Junior High School. This treated groundwater will be eventually treated in King County's Metro Waste Water Treatment System. No other utility is required for the proposed project.

- b. *Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.*

A pad-mounted transformer is proposed to be installed for the proposed project that could be connected to a contingent groundwater treatment plant (if implementation is ever required). The transformer and electric service is anticipated to be similar to a residential electric service for operation of pumps and the treatment system.

**C. SIGNATURE**

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

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Signature:

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Date Submitted:

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